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Certificate No.: TC- 5548

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2018-05-02-23** **Date: 05-05-2018**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at 17th main depot Muniswamappa layout, K.G halli and surrounding area in ward no.12 Shettyhalli, Shettyhalli Sub Division.
Agency	:	Technical Manager (west), KRIDL, Project Implementation unit, No. 280, 59th Cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bengaluru-560010
Customer's Reference	:	BBMP/EE/DD/WO/325/17-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-05-2018
Sample ID No	:	2018-05-02-23 /01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	03-05-2018
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.72	–
2	Finess by Air permeablity method (m^2/kg,Min)	298.4	225m^2/kg, Min
3	Density (gm/cc)	3.13	–
4	Standard Consistency (%)	29.5%	Not specified
5	Initial Setting time	155 minutes	Not less than 30 minutes
6	Final Setting time	285 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

Note:

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2018-05-02-23** **Date: 31-05-2018**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at 17th main depot Muniswamappa layout, K.G halli and surrounding area in ward no.12 Shettyhalli, Shettyhalli Sub Division.
Agency	:	Technical Manager (west), KRIDL, Project Implementation unit, No. 280, 59th Cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bengaluru-560010
Customer's Reference	:	BBMP/EE/DD/WO/325/17-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-05-2018
Sample ID No	:	2018-05-02-23 /01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	03-05-2018
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

SLNo.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	29.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.5N/mm^2	Not less than 37 N/mm^2
3	28 Days	55.5N/mm^2	Not less than 53 N/mm^2

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-05-02-23** **Date: 05-05-2018**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at 17th main depot Muniswamappa layout, K.G halli and surrounding area in ward no.12 Shettyhalli, Shettyhalli Sub Division.
Agency	:	Technical Manager (west), KRIDL, Project Implementation unit, No. 280, 59th Cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bengaluru-560010
Customer's Reference	:	BBMP/EE/DD/WO/325/17-18
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	02-05-2018
Sample ID No	:	2018-05-02-23 /02(a)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	02-05-2018

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	355	355	2.4	97.6	90-100
3	20 mm	7102	7457	49.7	50.3	30-70
4	10 mm	4989	12446	83.0	17.0	10-35
5	4.75 mm	2218	14664	97.8	2.2	0-5
6	Pan	336	15000	100.0	0	---

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Format No: CP/TP/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-05-02-23** **Date: 05-05-2018**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at 17th main depot Muniswamappa layout, K.G halli and surrounding area in ward no.12 Shettyhalli, Shettyhalli Sub Division.
Agency	:	Technical Manager (west), KRIDL, Project Implementation unit, No. 280, 59th Cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bengaluru-560010
Customer's Reference	:	BBMP/EE/DD/WO/325/17-18
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	02-05-2018
Sample ID No	:	2018-05-02-23 /02(a)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	02-05-2018

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	355	355	2.4	97.6	90-100
3	20 mm	7102	7457	49.7	50.3	30-70
4	10 mm	4989	12446	83.0	17.0	10-35
5	4.75 mm	2218	14664	97.8	2.2	0-5
6	Pan	336	15000	100.0	0	---

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Format No: CP/TF/01

TEST REPORT OF FINE AGGREGATE

Lab ID	:	CP-2018-05-02-23
		Date: 05-05-2018
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at 17th main depot Muniswamappa layout, K.G halli and surrounding area in ward no.12 Shettyhalli, Shettyhalli Sub Division.
Agency	:	Technical Manager (west), KRIDL, Project Implementation unit, No. 280, 59th Cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bengaluru-560010
Customer's Reference	:	BBMP/EE/DD/WO/325/17-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-05-2018
Sample ID No	:	2018-05-02-23 /03
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	02-05-2018
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	32	32	3.2	96.8	90-100	90-100	90-100	95-100
3	2.36 mm	121	153	15.3	84.7	60-95	75-100	85-100	95-100
4	1.18 mm	199	352	35.2	64.8	30-70	55-90	75-100	90-100
5	600 micron	222	574	57.4	42.6	15-34	35-59	60-79	80-100
6	300 micron	219	793	79.3	20.7	5-20	8-30	12-40	15-50
7	150 micron	152	945	94.5	5.5	0-10	0-10	0-10	0-15
8	Pan	55	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF PRECAST COVER SLAB

Lab ID	:	**CP-2018-05-02-23** **Date: 05-05-2018**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at 17th main depot Muniswamappa layout, K.G halli and surrounding area in ward no.12 Shettyhalli, Shettyhalli Sub Division.
Agency	:	Technical Manager (west), KRIDL, Project Implementation unit, No. 280, 59th Cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bengaluru-560010
Customer's Reference	:	BBMP/EE/DD/WO/325/17-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-05-2018
Sample ID No	:	2018-05-02-23 /01
Sample Type /Size	:	Precast Cover Slab (100 mm)
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
Date of test	:	02/05/2018

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.48	100.51	1.348	4474	91.1	20.4	18.9	23.7
2	Cover Slab-2	75.66	100.53	1.395	4495	87.3	19.4	18.1	22.6
3	Cover Slab-3	75.48	100.48	1.372	4474	88.5	19.8	18.4	23.0

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TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Lab ID	:	**CP-2018-05-17-09**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore. **Date: 19/05/2018**
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at 17th main depot Muniswamappa layout, K.G halli and surrounding area in ward no.12 Shettyhalli, Shettyhalli Sub Division.
Agency	:	Technical Manager (west), KRIDL, Project Implementation unit, No. 280, 59th Cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bengaluru-560010
Customer's Reference	:	BBMP/EE/DD/WO/325/17-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	17-05-2018
Sample ID No	:	2018-05-17-09 /03
Customer ID	:	RCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	19/05/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RCC	M20	12/05/2018	19/05/2018	149.70 X 150.45 X 149.97	22522	7.967	412.8	18.3	17.9
2	RCC	M20	12/05/2018	19/05/2018	150.18 X 149.71 X 149.77	22483	8.157	392.2	17.4	
3	RCC	M20	12/05/2018	19/05/2018	151.32 X 150.92 X 149.61	22836	7.951	407.2	17.8	

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TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TP/01

Date: 19/05/2018

Lab ID	:	CP-2018-05-17-09
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at 17th main depot Muniswamappa layout, K.G halli and surrounding area in ward no.12 Shettyhalli, Shettyhalli Sub Division.
Agency	:	Technical Manager (west), KRIDL, Project Implementation unit, No. 280, 59th Cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bengaluru-560010
Customer's Reference	:	BBMP/EE/DD/WO/325/17-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	17-05-2018
Sample ID No	:	2018-05-17-09 /05
Customer ID	:	RCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	19/05/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RCC	M20	12/05/2018	19/05/2018	151.17 X 150.08 X 150.43	22686	8.186	394.4	17.4	
2	RCC	M20	12/05/2018	19/05/2018	150.73 X 149.72 X 151.60	22567	8.333	411.7	18.2	17.9
3	RCC	M20	12/05/2018	19/05/2018	151.49 X 149.99 X 151.77	22722	8.449	407.6	17.9	

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